

Data Description Exchange Services for Heterogeneous Vehicle and Spaceport Control and Monitor Systems, Phase II

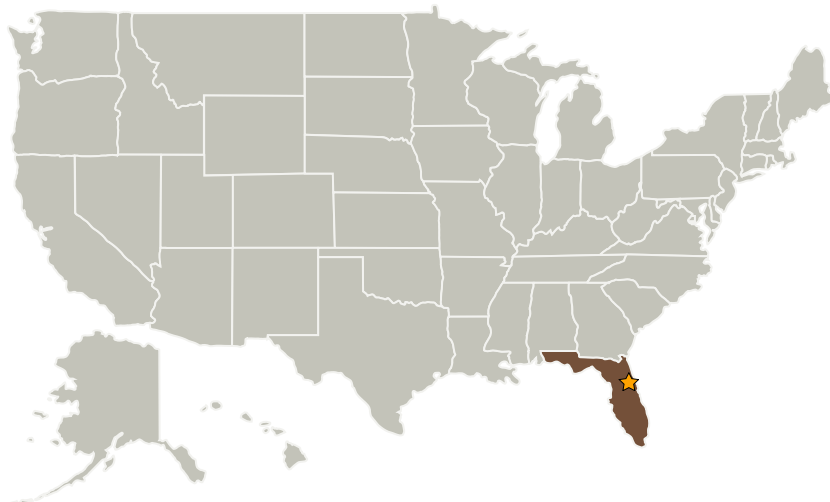
Completed Technology Project (2004 - 2006)



Project Introduction

CCT has designed and prototyped, as part of the Phase-1 SBIR, a generic platform independent software capability for exchange of semantic control and monitoring information. In addition, CCT has laid the foundation for auto-generation of semantic construction and interpretation libraries from semantic databases that can be used for message-based communications between loosely coupled systems. This new capability will reduce development, operations, and support costs for legacy and future systems that are part of ground and space based distributed command and control systems. It will also establish a space systems information exchange model that can support future highly interoperable and mobile software systems. CCT has also leveraged Phase-1 results to develop a common data description language approach for NASA-ELV launch operations, creating a pathfinder that will eventually allow all launch service providers, range systems, and ground operators to use common data descriptions, processes, and tools for ground systems configuration.

Primary U.S. Work Locations and Key Partners



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Kennedy Space Center (KSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Organizations Performing Work	Role	Type	Location
★ Kennedy Space Center(KSC)	Lead Organization	NASA Center	Kennedy Space Center, Florida
Command and Control Technologies Inc	Supporting Organization	Industry	Titusville, Florida

Primary U.S. Work Locations

Florida

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX16 Air Traffic Management and Range Tracking Systems
 - └ TX16.3 Traffic Management Concepts